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Customer No. 01333

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Liang-Sheng Liao

FABRICATING AN ELECTRODE  
FOR USE IN ORGANIC  
ELECTRONIC DEVICES

Serial No. 10/775,360

Filed 10 February 2005

Group Art Unit: 1792

Confirmation No. 1223

Examiner: Lin, James

Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

Sir:

**Declaration under 1.132**

I, the undersigned, Steven Van Slyke, of Monroe County, New York,  
declare that:

I received a B.A. in Chemistry from Ithaca College and a M.S. in  
Materials Science from Rochester Institute of Technology. I joined the Eastman  
Kodak Research Laboratories in 1979 where my work has centered on organic light  
emitting diodes (OLEDs). I have active in all phases of OLED technology from basic  
research on organic materials to development of manufacturing technologies for high  
volume OLED display production. I am recognized as a co-inventor of small-  
molecule organic light emitting diodes and am a leading authority on OLED  
technology. I have published and presented over 40 papers and hold 35 patents in the

areas of OLED materials and device architecture. I am a fellow of the Society for Information Display, a research fellow at Eastman Kodak Company and am the director of the Display Technology Laboratory within the OLED Systems SPG. I have received many awards for my contributions to OLED technology and manufacturing, including the American Chemical Society National Award for Team Innovation and the Jan Rajchman Prize from the Society for Information Display.

I have reviewed the outstanding Advisory Action dated 14 October 2008 and any applicable cited references. In addition, I have read the previous Official Action dated 6 August 2008 in this case and have reviewed the references cited therein. I have also read the accompanying 1.132 declaration of Dr. Liao.

Based on my experiences, I believe that Dr. Liao is correct in his statement that it is impossible to achieve co-deposition of Mg and Ag (or Al) from a single source. This is due to the very different vapor pressures of Mg and Ag (or Al) at all temperatures. I have been actively involved in R+D activities related to organic light emitting diodes and am very familiar with the deposition of metals such as Mg, Ag and Al. The common method of co-depositing Mg with Ag (or Al) is to place these materials in separate sources that are independently heated. As is well known by those with ordinary skill in the art, the Mg sublimates at a low temperature relative to either Ag or Al and if Mg is placed in the same source as Ag or Al, the Mg will sublime completely from the source before the Ag or Al vaporization temperature is reached.

I believe, with reasonable technical certainty, that the use of a single evaporation source is not capable of creating Mg/Al or Mg/Ag alloy cathodes.

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I hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false

statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

November 6, 2008

Date

Steven Van Slyke

Steven Van Slyke